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| **conduction** | **Physics** | **شعار-القسم** |
| **Conduction** |
| Worksheet-3- |

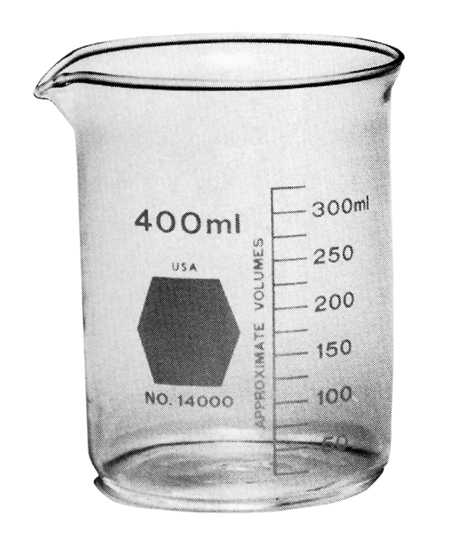
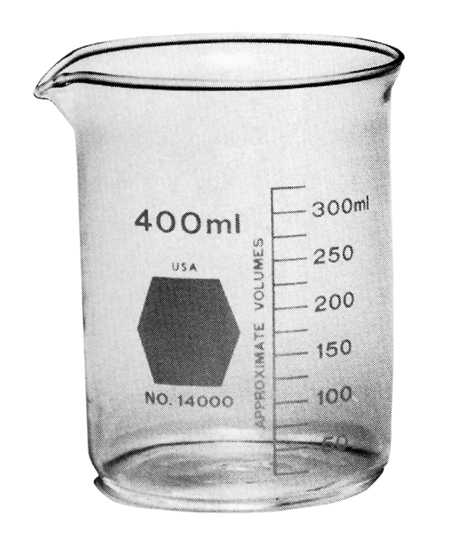
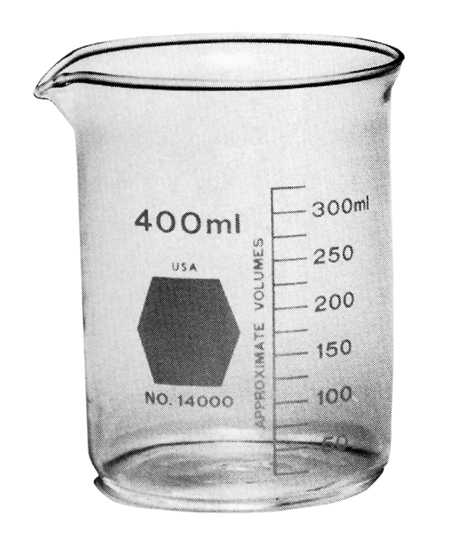
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| Name: Class: 8 /……........ | |
| Book pages: | |
|  | Date: -5-2012 |
| 8.17.3- 8.17.4 | Core Standard number |
| 1.Know that heat flows from always flows from a region of higher temperature to a region of lower temperature.  2.Explain how conduction happens.  3.Compare the conductivity of some materials  4. Know some applications of the differences between materials in terms of their conductivity. | Learning Objectives  Logo + text 2 |

1. Introduction
2. Consider three beakers A, B and C.

B Warm water

C

Hot water



A Cold water

Do the following:

A student places his right hand into beaker A and his left hand into beaker C.

Another student places both right and left hands into beaker B.

Answer the following questions:

1. Explain why the right hand feels cold and the left hand feels hot?

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1. Explain why both left and right hands in beaker B feel neither hot nor cold?

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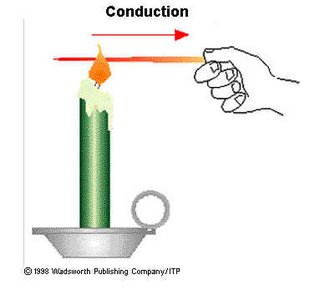
c- Conclusion:

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1. Conduction
2. a- Experiment 1

Heat one end of a metal rod with a flame, the other end will also get heated after a while.

Explain the result above:

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b- Define conduction

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1. Experiment 2

Repeat the experiment above with different rods of different materials ( copper-iron-glass-wood) and each time cover the other end with wax.

1. What do you observe?

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1. Classify the four materials in terms of conductivity of heat?

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1. List some good conductors and some poor conductors of heat.

* good conductors of heat: ………………………………………………………………

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* poor conductors of heat: ………………………………………………………………

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1. Conduction in liquids and gases.

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